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Department of Energy

DUE DATE

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ROUCHER, D.W.

DAVIS, J.G. VERED, J.E. FERRERA, D.W.

ERRIS L.R. RAIKOR, F.J.

-RANCIS, G.E GOODWIN, R. HANNI BJ.

HEALY, T.J. DEKER, E.H JENS, J. P. KERSH, J.M. KIRBY, W.A.

KUESTER, A.W.

MATHEWS, T.A. MEURRENS, B.E

MORGAN, R.V. PIZZUTO, V.M.

POTTER, G.L.
SAFFELL, B.F.
SANDLIN, N.B.
SWANSON, E.R.
WIEBE, J.S.
WILKINSON, R.B.
WILSON, J.M.
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Rocky Flats Office

SENJAMIN, A.

SRETZKE, J.C.

SURLINGAME, A.H.

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Section D Categorical Exclusion for Geologic and Ecologic Characterization Within Wetlands or Floodplains at Rocky Flats Plant (RFO/CX025-91)

Ralph Lightner, Director Southwestern Area Programs Division, EM-45

Enclosed is a draft categorical exclusion (CX) for proposed work to characterize the geology and ecology of the Rocky Flats Plant. This portion of the characterization work may occur within wetlands or floodplains on the plant site. The studies outlined in the CX will be conducted to provide data in support of cleanup activities to be performed under RCRA and CERCLA. The work is scheduled to begin immediately and continue through December 1993.

Please contact Tricia Powell (FTS 345-3260) to discuss the planned activity.

David P. Simonson
Assistant Manager
for Environmental

for Environmental Management

Attachment

cc w/attachment:

- A. Rampertaap, EM-453
- L. Lawson, EM-431
- S. Nesta, EG&G/RF

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Reviewed for Addressee
Corres Control RFP

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RF-46522 (Rev. 6/91)

A-0U02-000989

## SECTION D DETERMINATION CATEGORICAL EXCLUSION (CX) DETERMINATION RFO/CX025-91

Proposed Action: Field Activities for Geologic and Ecologic Characterization Within

Floodplains or Wetlands

Location: Rocky Flats Plant, Golden, CO

Proposed by: U.S. Department of Energy, Rocky Flats Office

## Description of the Proposed Action:

Rocky Flats Plant proposes to carry out field activities to gather data to characterize the geology and ecology of the plant site within wetlands and floodplains in support of the remediation of RCRA and CERCLA sites. This work may be performed both within and outside the boundaries of operable units 1, 2, 5 and 6. The characterization work would include 1) establishing new surface water and sediment sampling stations and collecting samples, 2) collecting soil and soil gas samples, and 3) drilling new water wells and collecting groundwater samples, and 4) drilling to obtain geologic cores.

To establish new surface water and sediment sampling stations, stakes would be driven into the ground at the edge of a stream or water body. The stakes would be used as reference points so that samples can be taken from the same locations periodically. Water and sediment samples would be taken by driving or walking to the sample site and collecting up to a few pounds of sediment or a few quarts of water.

Soil and soil gas samples may be collected within floodplains from grids 38, 51, 52, 57, 81, 96, 109 and 115 shown on Figure 2 using three different methods. The first soil sampling method uses a Colorado Department of Health sampler to remove two to three tablespoons of soil from the ground surface anywhere within the grid. The second soil sampling method that would be used is backhoe excavation of soil pits nine feet long, five feet wide and four feet deep to gather samples from the soil profile within each grid. The sample pits will be refilled with the excavated earth after sampling. Sampling soil gas (Figures 3 and 8) is to be accomplished by using a hand auger to drill a one inch diameter hole 18 to 24 inches deep. A probe is inserted into the hole to sample any gases that escape from the soil.

Drilling new water wells and core holes would involve driving a truck mounted drilling rig to the locations shown on Figures 1, 3, 6, 7, 8, 9, 10, 11, 13 and 14 to drill holes four to six inches in diameter. Drilling activities that may be within the 100 year floodplain or wetlands are highlighted by heavy arrows on the figures. As a general principle, drilling in wetlands would be avoided because of the added difficulties of setting up a drill rig and drilling in saturated soils, but it may be necessary to locate one or more holes within a wetland. As holes are drilled, drill cuttings would be brought to the surface and shoveled into drums for analysis of contaminants and appropriate disposal. Drilling activity will result in the trampling of vegetation for up to 200 square feet around the drill hole.

All of these activities are scheduled to occur between May 1991 and December 1993. They will not introduce or cause the inadvertent or uncontrolled movement of hazardous substances or non-native organisms, or adversely affect environmentally sensitive areas listed in the guidelines. Because of the nature of the proposed activities, no adverse impacts are expected to wetlands or floodplains.

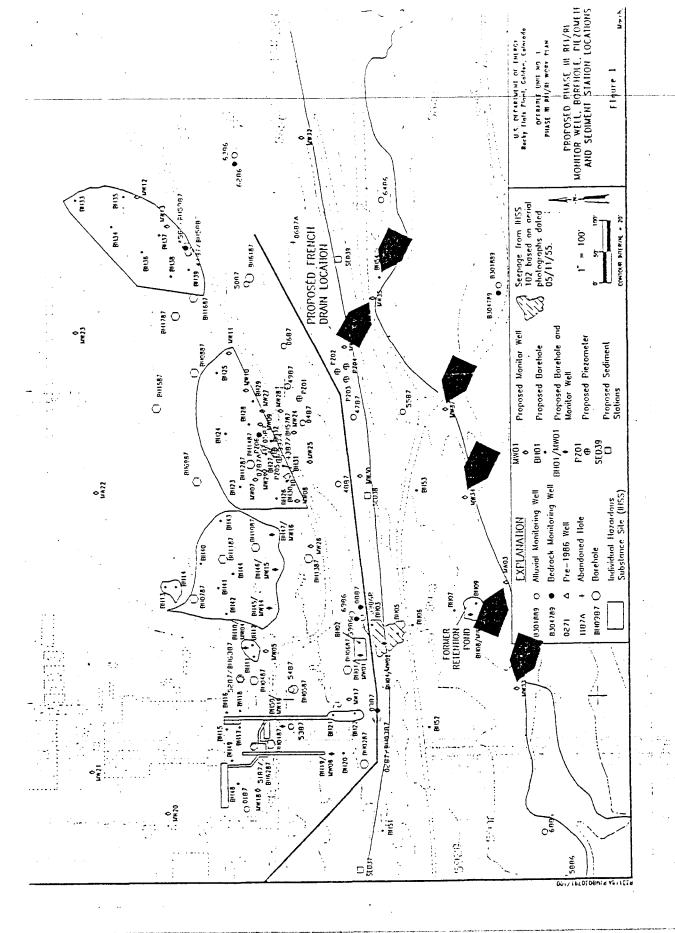
Categorical Exclusion to be applied:

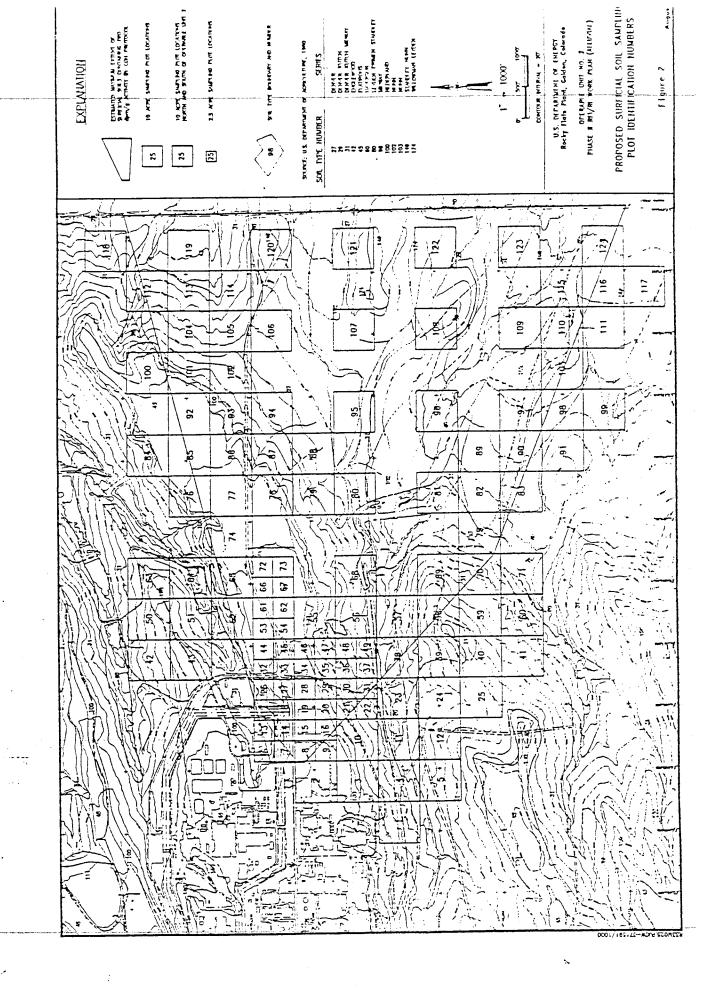
3. Site characterization and environmental monitoring, including siting, construction, or operation of characterization and monitoring devices, under CERCLA and RCRA, if these activities would not introduce or cause the inadvertent or uncontrolled movement of hazardous substances as defined in section 101(33) of CERCLA, or non-native organisms, and would not adversely affect environmentally sensitive areas as defined in paragraph 4 (DOE NEPA Guidelines, 55FR37178).

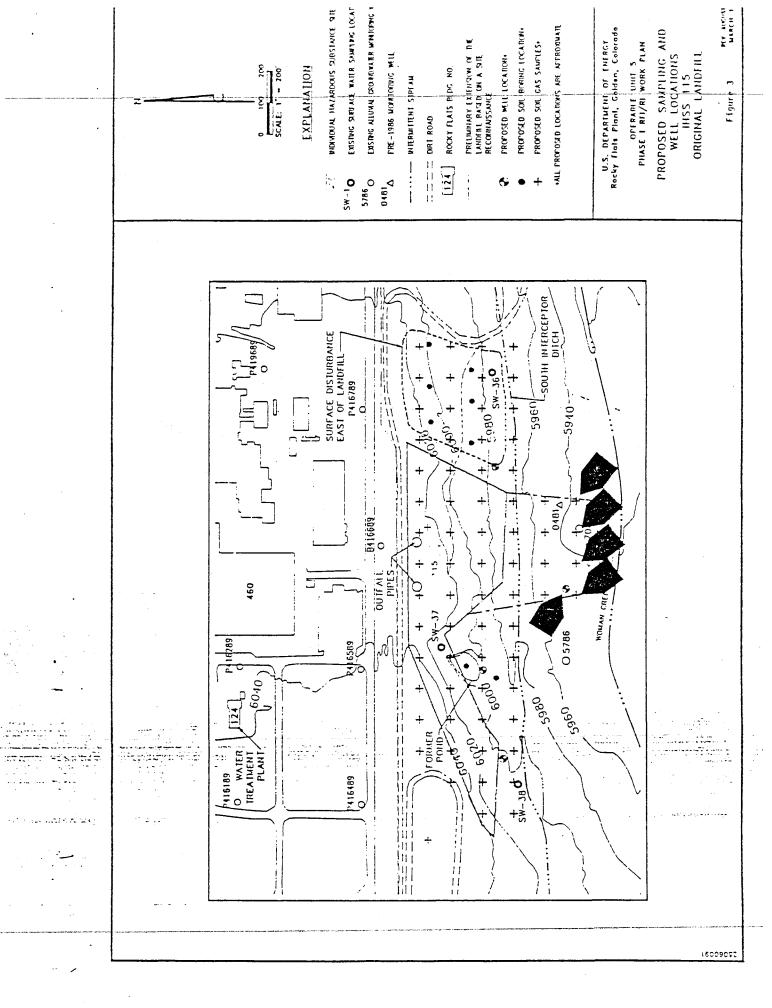
## DOE NEPA REGULATIONS SECTION D DETERMINATION CATEGORICAL EXCLUSION DETERMINATION - RFO/CX 025-91 Geologic and Ecologic Characterization Within Floodplains and Wetlands at Rocky Flats Plant

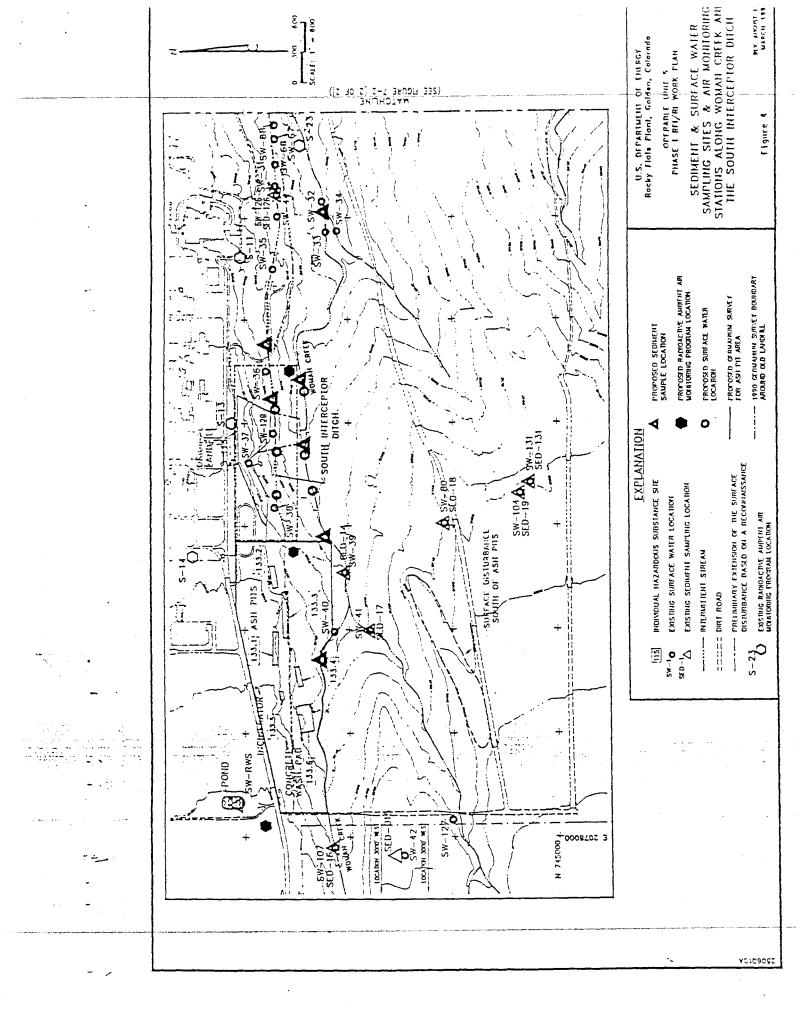
I have determined that the proposed action meets the requirements for a categorical exclusion as defined in the Section D of the DOE NEPA Guidelines. Therefore, I approve the categorical exclusion of the proposed action from further NEPA review and documentation.

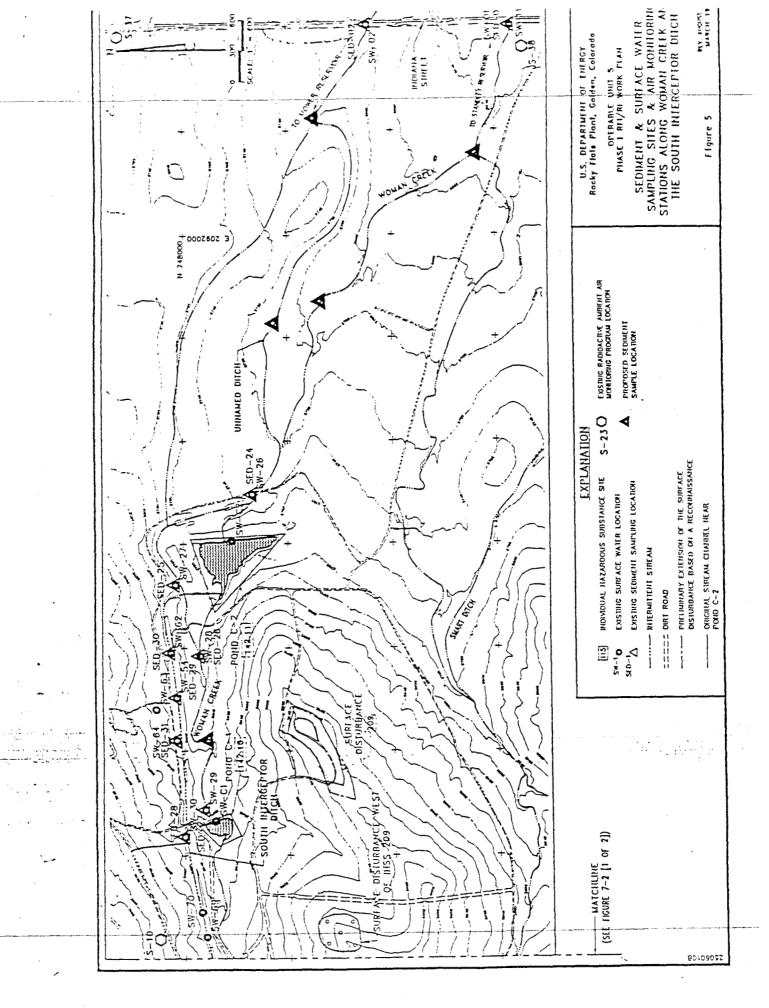
Date:	Signature:	
	Title:	Leo Duffy Director, Environmental Restoration & Waste Mgmt.
EH-25 has reviewed this determination	n and has no c	objection.
Date:	Signatur	
	Title:	Carol M. Borgstrom Director, Office of NEPA Oversight

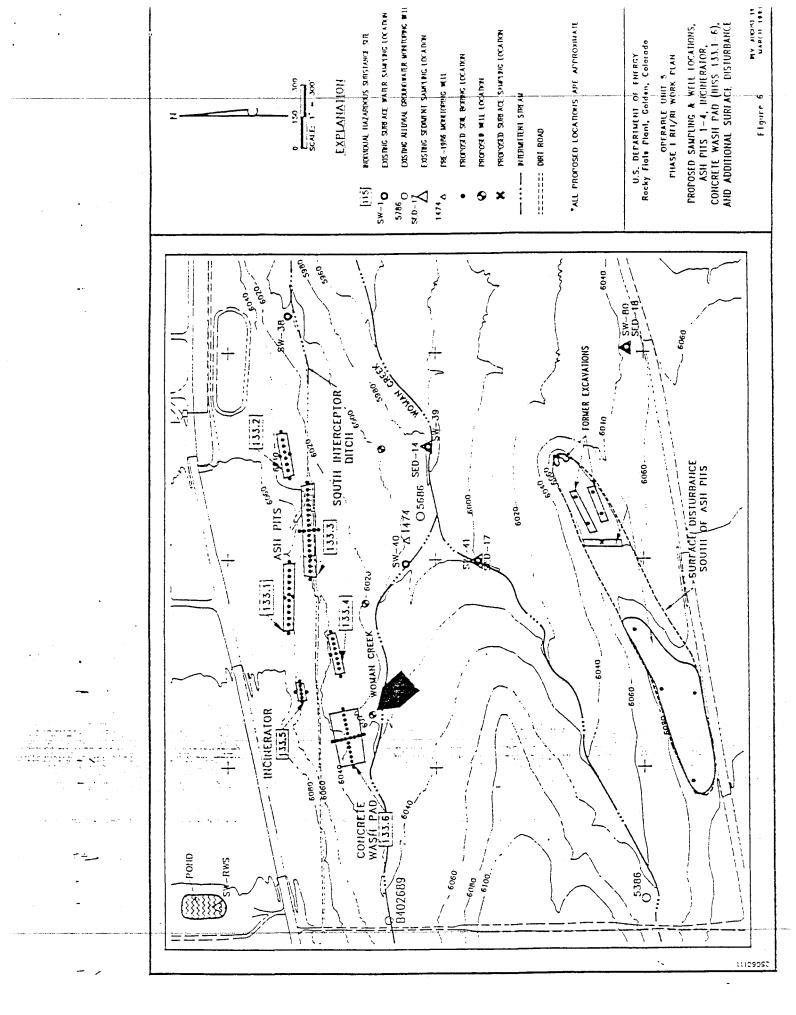


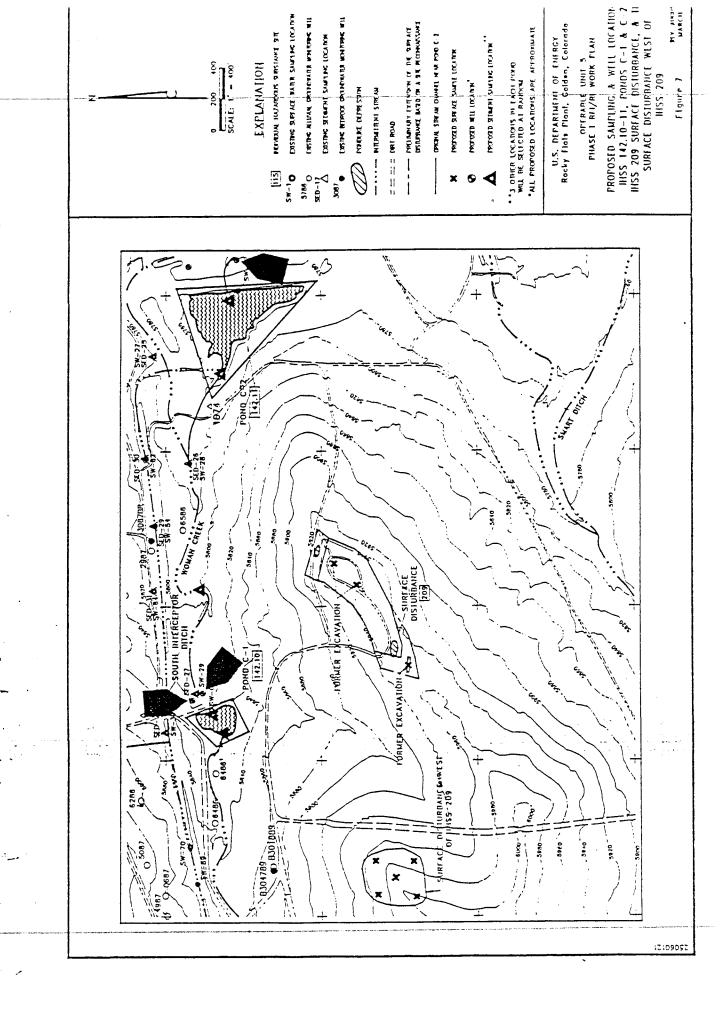


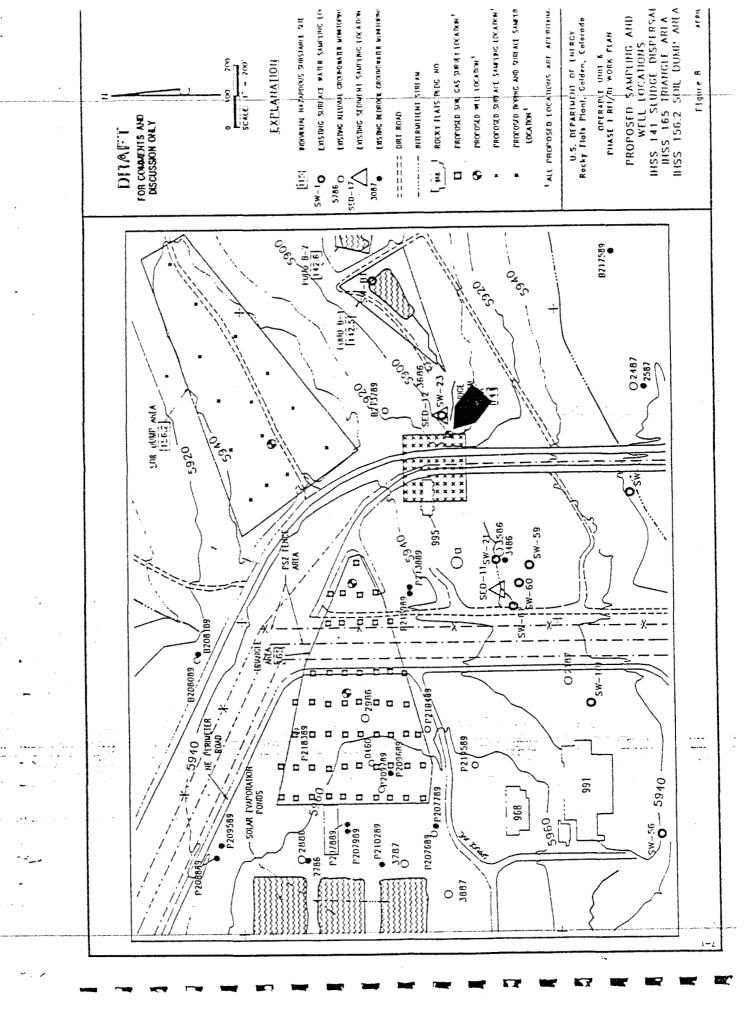


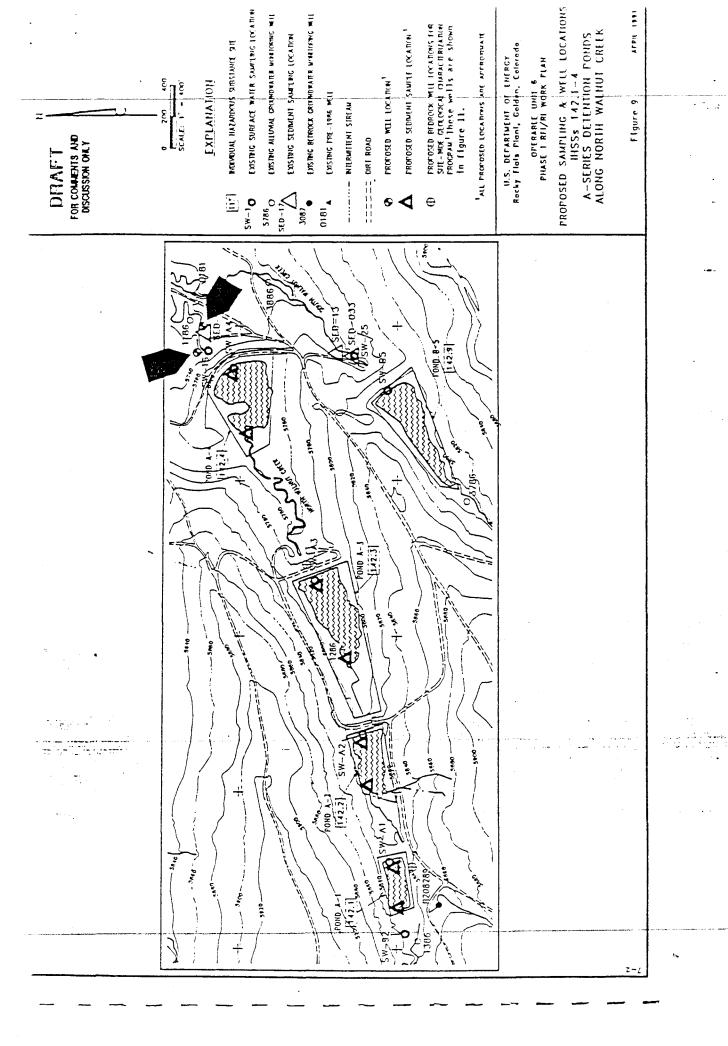


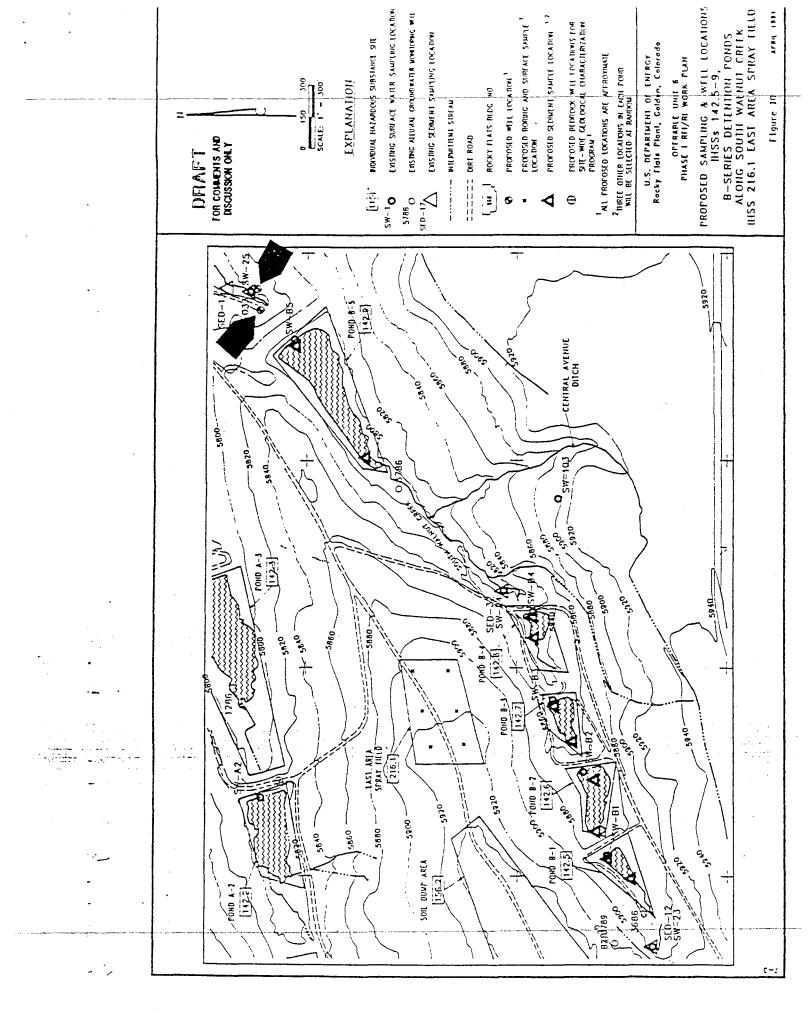




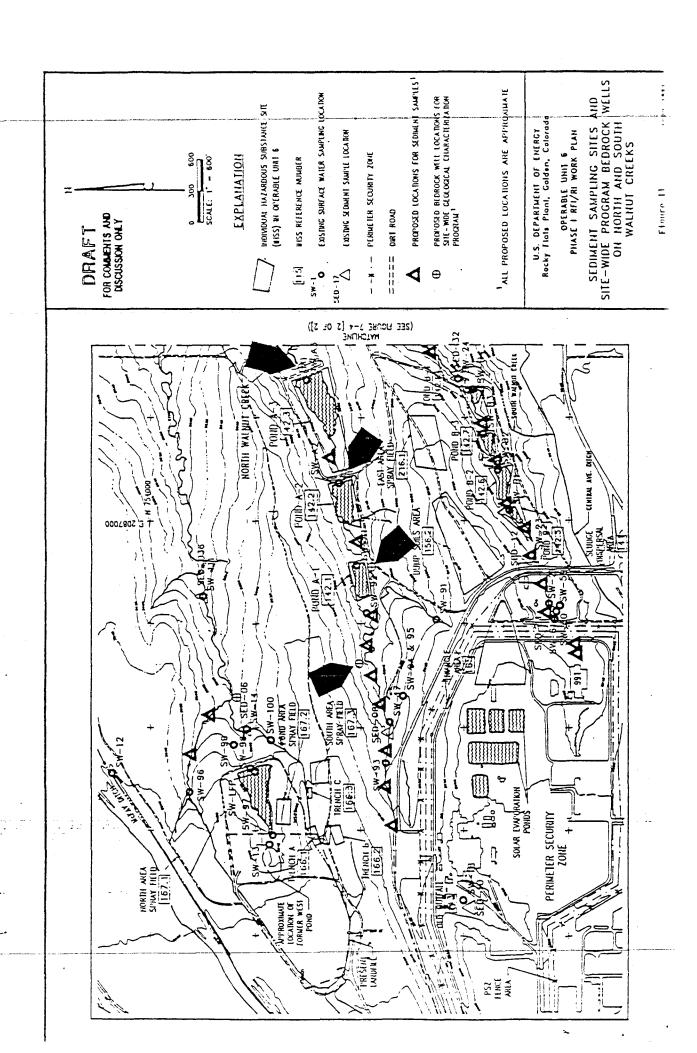




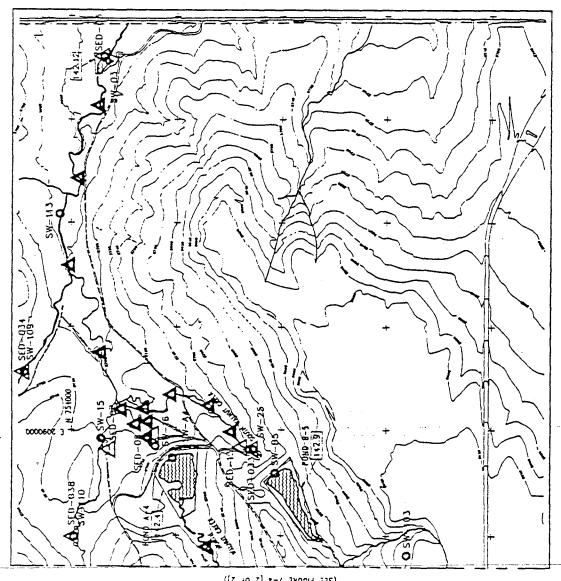




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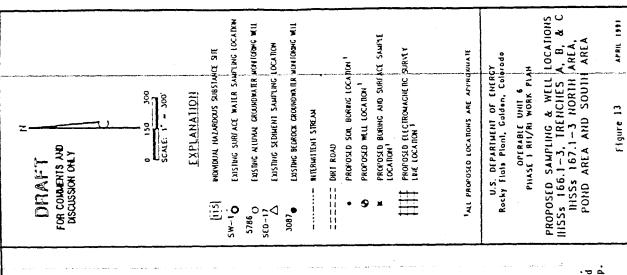


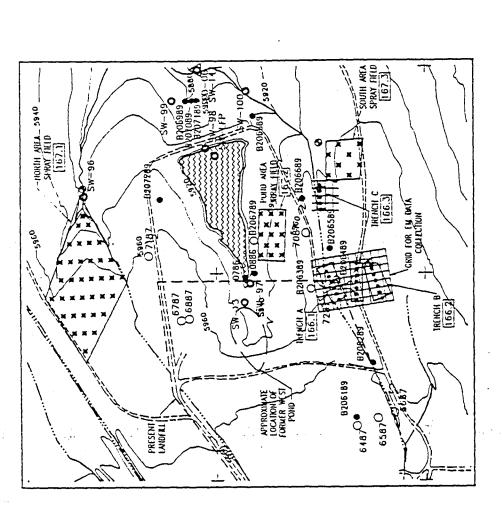
PROPOSED LOCATIONS FOR SEDIMENT SAMPLES SEDIMENT SAMPLING SITES AND SITE-WIDE PROGRAM BEDROCK WELLS ON NORTH AND SOUTH WALHUT CREEKS APRIL 1991 ALL PROPOSED LOCATIONS ARE APPROXIMATE EXISTRIC SURFACE WATER SAMPLING LOCATION INDIVIDUAL HAZARDOUS SUBSTANCE SITE (BISS) IN OPERABLE UNIT 6 U.S. DEPARIMENT OF ENERGY Rocky Flats Plant, Goldon, Colored ENSING SEDMENT SAULTE LOCATION OPERABLE UNIT 6 PIIASE I RFI/RI WORK PLAH SCALE: 1 - 600' EXPLANTION MISS RUTRENCE MUMBER FOR COMMENTS AND DISCUSSION ONLY DIRT ROAD DRAFT V1-03s



([2 TO 2] 1-7 [2 OF 2])

L173-71





Preliminary information from the U. S. Army Corps of Engineers shows no flood plain for the drainageways on this map.

SANDSTONE #3 PROPOSED BOREHOLE/WELL CLUSTER LOCATIONS FOR INITIAL BORING AND SAMPLING PROGRAM PROPOSED BOREHOLE WELL CLUSTER (110. OF WELLS IN PARENDIESES) EST. EXTENT OF ARAPAIGE SAIDSTONE PI SANDSTORE P POLINIAL SUBCROITING ARIPHARE SANDSTURE <u>°</u>\$ OPERABLE UNIT 2 PHASE II RFI/RI WORK PLAN (BEDROCK) U.S. DEPARTMENT OF ENERGY Rocky Fiels Plant, Golden, Colorado AREA EXPLANATION BEDROCK MONITOR WELL - ESI EXTENT OF ARAPAICE EST. EXTENT OF ARAP ANGE ALLUMAL MOINTOR W PRE-1986 MONITOR EAST TRENCHES A V949 44 8 BOREHOLE W-11 ,Z., :o **-5**€ 10106 -g. ONOJ 1 POND - B-ONO KoS5#4 â 39 - Bulle Af \$ 14- 80/01(15-00 PAD MOUND KaSS#13 0 C J